
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Rajiv R. Singh, et al..

Examiner: **Amina S. Khan**

Application No.:

10/694,273 (Conf. No. 2796)

Group Art Unit: **1751**

Filed: **October 27, 2003**

Attorney Docket No. H0003965

For: **Compositions Containing Fluorine Substituted Olefins**

ELECTRONICALLY FILED ON DECEMBER 11, 2008

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENT INFORMATION DISCLOSURE STATEMENT

Sir:

Attached hereto are two documents the undersigned is submitting for the purpose of making them of record in this application. These items are identified on the attached PTO SB-08 form.

The first item is a paper published in 1992 in connection with NASA relating to alternative refrigerants to replace Refrigerant 12. On page 3 is an explanation of Table 2 of the paper, which is said to contain a listing of all potential fluids considered, with a comment relating to acceptance or rejection of the fluid being included next to each fluid considered. The portion

Supplemental Information Disclosure Statement
Attorney Docket No. H0003965

of Table 2 appearing on pages 11 and 12 include certain fluorinated olefins, and the comment next to each of these compounds was "reactive." No fluorinated olefin is identified anywhere in the paper as being suggested for use as a replacement for R-12.. The paper indicates in column 1, lines 7 – 13 that the mixtures which are suggested for use are compatible with conventional lubricating oils. There is no mention in this paper of any specific lubricant compound or material.

The second item is Russian patent document RU 2073058. Applicants have obtained a copy of the published English language abstract and also a certified translation of the text of the document. A copy of each of these is attached. Based on the translation, this document describes a composition of fluids for use in refrigeration systems and heat pumps. The document describes what is called an ozone friendly refrigerant containing three components: tetrafluoroethane; a fluorinated hydrocarbon; and a hydrocarbon having three to five carbon atoms. The fluorinated hydrocarbon which is disclosed is an unsaturated fluorinated hydrocarbon from the propylene series, having a structural formula $C_3F_nH_{(6-n)}$, wherein n is one to six. This is essentially the same formula disclosed in the translation of Japanese Unexamined Application H4-110388 (Daikcin). The attached Russian patent document does not mention lubricants for the refrigerant.

A copy of each document identified on the attached PTO-SB-08 is enclosed. It is respectfully requested that these documents be considered by the Examiner and an initialed copy of the form be returned to the undersigned at the Examiner's convenience.

It is believed that this disclosure complies with the requirements of 37 C.F.R. subsections 1.56, 1.97, 1.98 and the Manual of Patent Examining Procedure § 609. If for some reason the Examiner considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be remedied. The commissioner is hereby authorized to charge \$180.00 to

Supplemental Information Disclosure Statement
Attorney Docket No. H0003965

Deposit account Number 50-1943. The Commissioner is also authorized to charge any fees associated with this communication or credit any overpayment to Deposit Account Number 50-1943

Respectfully submitted,

Dated: December 11, 2008

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